

Emergency Trauma Training Learning Objectives



Southeast Region EMS Council

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EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 1: Preparatory

Lesson 1-1 INTRODUCTION TO EMS SYSTEMS: 1 hour

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 1-1.1 Define the components of Emergency Medical Services (EMS) systems. (C-1)
- 1-1.2 Differentiate the roles and responsibilities of the ETT from other pre-hospital care providers. (C-3)
- 1-1.3 Define medical oversight and discuss the ETT's role in the process. (C-1)
- 1-1.4 State the working knowledge of the Alaska specific statutes and regulations regarding the EMS system. (C-1)
- 1-1.5 Accept and uphold the responsibilities of an ETT in accordance with the standards of an EMS professional. (A-3)
- 1-1.6 Explain the rationale for maintaining a professional appearance when on duty or when responding to calls. (A-3)
- 1-1.7 Describe why it is inappropriate to judge a patient based on a cultural, gender, age, or socioeconomic model, and to vary the standard of care rendered as a result of that judgment. (A-3)

Psychomotor Objectives:

No psychomotor objectives identified.

Lesson 1-2 THE WELL-BEING OF THE ETT: 1.5 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 1-2.1 List possible emotional reactions the ETT may experience when faced with trauma, illness, death and dying. (C-1)
- 1-2.2 Discuss the possible reactions that a family member may exhibit when confronted with death and dying. (C-1)
- 1-2.3 Recognize the signs and symptoms of critical incident stress. (C-1)
- 1-2.4 State possible steps that the ETT may take to help reduce/alleviate stress. (C-1)
- 1-2.5 Explain the need to determine scene safety. (C-2)
- 1-2.6 Discuss the importance of body substance isolation (BSI). (C-1)
- 1-2.7 Describe the steps the ETT should take for personal protection from airborne and blood borne pathogens. (C-2)
- 1-2.8 Explain the importance for serving as an advocate for the use of appropriate protective equipment. (A-3)
- 1-2.9 State the steps the ETT will take if exposed to airborne or blood borne pathogens. (C-1)

Psychomotor Objectives:

No psychomotor objectives identified.

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 1-3 LEGAL AND ETHICAL ISSUES: 1.5 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 1-3.1 Define the ETT scope of practice. (C-1)
- 1-3.2 Discuss the steps the ETT will take if a patient is identified as being enrolled in Comfort One. (C-1)
- 1-3.3 Define the term "advance directives". (A-3)
- 1-3.4 Define consent and discuss the methods of obtaining consent. (C-3)
- 1-3.5 Differentiate between expressed and implied consent. (C-3)
- 1-3.6 Explain the role of consent of minors in providing care. (C-1)
- 1-3.7 Discuss the implications for the ETT in patient refusal of transport. (C-1)
- 1-3.8 Discuss the issues of abandonment, negligence, and battery and their implications to the ETT. (C-1)
- 1-3.9 Explain the importance, necessity and legality of patient confidentiality. (C-1)
- 1-3.10 List the actions that an ETT should take to assist in the preservation of a crime scene. (C-3)
- 1-3.11 Discuss issues concerning the legal importance of documentation. (C-1)
- 1-3.12 List the injuries and suspicions which must be reported in Alaska; the time frames and format for reporting, and to whom the reports must be made. (C-1)

Psychomotor Objectives:

No psychomotor objectives identified.

Lesson 1-4 THE HUMAN BODY: 3 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 1-4.1 Identify the following topographic terms:
 - medial
 - lateral
 - distal
 - proximal
 - superior
 - inferior
 - anterior
 - posterior
 - midline
 - right and left
 - bilateral
- 1-4.2 Describe the basic anatomy and function of the following major body systems:
 - Respiratory
 - Circulatory

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

- Musculoskeletal
- Nervous
- Digestive
- Endocrine

Psychomotor Objectives:

No psychomotor objectives identified.

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 1-5. LIFTING AND MOVING PATIENTS: 4 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 1-5.1 Discuss the guidelines and safety precautions that need to be followed when lifting a patient. (C-1)
- 1-5.2 Describe the indications for an emergency move. (C-1)
- 1-5.3 Explain the rationale for an emergency move. (A-3)
- 1-5.4 Describe the indications for assisting in non-emergency moves. (C-1)
- 1-5.5 Discuss the various devices associated with moving a patient in the pre-hospital setting. (C-1)

Psychomotor Objectives:

- 1-5.6 Demonstrate an emergency move. (P-1,2)
- 1-5.7 Demonstrate a non-emergency move. (P-1,2)
- 1-5.8 Demonstrate the use of equipment available to move patient's. (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 2: Airway:

Lesson 2-1 AIRWAY: 4 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 2-1.1 Name and label the major structures of the respiratory system on a diagram. (C-1)
- 2-1.2 List the signs of adequate breathing. (C-1)
- 2-1.3 List the signs of inadequate breathing. (C-1)
- 2-1.4 Relate mechanism of injury to opening the airway. (C-3)
- 2-1.5 Describe how ventilating an infant or child is different from an adult. (C-1)
- 2-1.6 Explain why basic life support (BLS) ventilation and airway protective skills take priority over most other basic life support skills. (A-3)
- 2-1.7 State the importance of having a suction unit ready for immediate use when providing emergency medical care. (C-1)
- 2-1.8 Describe the techniques of suctioning. (C-1)

Optional Objectives:

- 2-1.9 Describe how to measure and insert an oropharyngeal (oral) airway. (C-1)
- 2-1.10 Describe how to measure and insert a nasopharyngeal (nasal) airway. (C-1)
- 2-1.11 Describe the steps in artificially ventilating a patient with a bag-valve-mask for two rescuers. (C-1)
- 2-1.12 Describe the signs of adequate artificial ventilation using the bag-valve-mask. (C-1)
- 2-1.13 Describe the signs of inadequate artificial ventilation using the bag-valve-mask (C-1)
- 2-1.14 Describe the steps in artificially ventilating a patient with a flow restricted, oxygen powered ventilation device. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 2-1.15 Demonstrate the steps in the head-tilt, chin-lift. (P-1,2)
- 2-1.16 Demonstrate the steps in the jaw thrust. (P-1,2)
- 2-1.17 Demonstrate the steps in mouth to mouth ventilation with body substance isolation. (P-1,2)
- 2-1.18 Demonstrate how to use a resuscitation mask to ventilate a patient. (P-1,2)
- 2-1.19 Demonstrate how to ventilate infant and child patients. (P-1,2)
- 2-1.20 Demonstrate how to clear a foreign body airway obstruction in a responsive adult, child and infant. (P-1)
- 2-1.21 Demonstrate how to clear a foreign body airway obstruction in an unresponsive adult, child and infant. (P-1)
- 2-1.22 Demonstrate the techniques of suctioning. (P-1,2)

Optional Objectives:

- 2-1.23 Demonstrate how to measure and insert an oropharyngeal (oral) airway. (P-1,2)
- 2-1.24 Demonstrate how to measure and insert a nasopharyngeal (nasal) airway.

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

(P-1,2)

- 2-1.25 Demonstrate the steps in assembling a bag-valve-mask unit. (P-1,2)
- 2-1.26 Demonstrate the steps in artificially ventilating a patient with a bag-valve-mask for two rescuers. (P-1,2)
- 2-1.27 Demonstrate artificial ventilation of a patient with a flow restricted, oxygen powered ventilation device. (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 3: Cardiopulmonary Resuscitation

Lesson 3-1: CARDIOPULMONARY RESUSCITATION: 4 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 3-1.1 List reasons for the heart to stop beating. (C-1)
- 3-1.2 Define cardiopulmonary resuscitation (CPR). (C-1)
- 3-1.3 Describe each link in the chain of survival and how it relates to the EMS system. (C-1)
- 3-1.4 Explain when the ETT is able to stop CPR. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 3-1.5 Demonstrate the steps of adult one-rescuer, adult two-rescuer, child and infant CPR. (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 4: Patient Assessment

Lesson 4-1: PATIENT ASSESSMENT: 8 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 4-1.1 Discuss the components of scene size up as outlined in the skill sheets . (C-1)
- 4-1.2 Discuss the components of the initial assessment. (C-1)
 - Reasons for forming a general impression of a patient
 - Methods of assessing a patient's mental status using the AVPU mnemonic
 - Methods used to assess a patient's airway
 - Methods used to assess a patient's breathing status
 - Differentiate between adequate and inadequate breathing
 - Methods used to obtain a pulse
 - Differentiate between obtaining a pulse in an adult, child and infant
 - The need for assessing the patient for external bleeding
 - Normal and abnormal findings of assessing skin color, temperature, condition
 - Reasons for prioritizing a patient for care and transport
- 4-1.3 Discuss the components of the physical exam. (C-1)
 - Areas of the body evaluated during the physical exam
 - Additional questions that may be asked during the physical exam
 - Patient history using the SAMPLE mnemonic
- 4-1.4 Describe taking and recording the following vital signs:
 - breathing
 - pulse
 - blood pressure by auscultation and palpation
- 4-1.5 Discuss the components of the on-going assessment as outlined in the skill sheets. (C-1)
- 4-1.6 Describe the information included in the ETT "hand-off" report. (C-1)
- 4-1.7 Describe the components of the SOAP format in documentation. (C-1)
- 4-1.8 Demonstrate a caring attitude towards any patient with illness or injury who request emergency medical services (A-3)
- 4-1.9 Communicate with empathy to patients being cared for, as well as family members, and friends of the patient. (A-3)
- 4-1.10 Show compassion when caring for the physical needs of patients. (A-3)
- 4-1.11 Participate willingly in the care of all patients. (A-3)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 4-1.12 Demonstrate the steps used to assess scene size up as outlined in the skill sheets. (P-1,2)
- 4-1.13 Demonstrate the steps in the initial assessment as outlined in the skill sheets. (P-1,2)
- 4-1.14 Demonstrate the steps in the physical exam as outlined in the skill sheets . (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

- 4-1.15 Demonstrate asking a patient questions to obtain a SAMPLE history. (P-1,2)
- 4-1.16 Demonstrate the steps in obtaining the vital signs as follows:
 - breathing
 - pulse
 - blood pressure by auscultation and palpation
- 4-1.17 Demonstrate the on-going assessment. (P-1,2)
- 4-1.18 Demonstrate documentation of patient information on a patient report form.
(P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 5: Trauma

Lesson 5-1 BLEEDING AND SOFT TISSUE INJURIES: 2 hours

Cognitive Objectives:

At the completion of this lesson, the ETT will be able to:

- 5-1.1 Review the function of the circulatory system. (C-1)
- 5-1.2 Differentiate between arterial, venous and capillary bleeding. (C-3)
- 5-1.3 State the emergency care for external bleeding. (C-1)
- 5-1.4 State the types of open soft tissue injuries. (C-1)
- 5-1.5 Describe the emergency medical care of a patient with:
 - a soft tissue injury
 - a penetrating chest injury
 - an open wound to the abdomen
 - an impaled object
 - an amputation
 - burns
- 5-1.6 List the functions of dressing and bandaging. (C-1)
- 5-1.7 List the signs and symptoms of internal bleeding. (C-1)
- 5-1.8 List the steps in the care of a patient with signs and symptoms of internal bleeding . (C-1)
- 5-1.9 Given scenarios involving injuries in this section, explain how patient management priorities and transport decisions are determined. (A-3)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 5-1.10 Demonstrate the following methods of emergency medical care for external bleeding. (P-1,2)
 - direct pressure
 - pressure points
- 5-1.11 Demonstrate the steps in the emergency medical care of a patient with: (p-1,2)
 - soft tissue injuries
 - an open chest wound
 - open abdominal wounds
 - an impaled object
 - an amputation/amputated part
 - burns
- 5-1.12 Demonstrate the care of the patient exhibiting signs and symptoms of internal bleeding. (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 5-2 SHOCK: 1 hour

Cognitive Objectives:

At the completion of this lesson, the ETT will be able to:

- 5-2.1 Define shock (hypoperfusion). (C-1)
- 5-2.2 List the signs and symptoms of shock (hypoperfusion). (C-1)
- 5-2.3 List 4 types of shock:
 - hypovolemic
 - cardiogenic
 - anaphylactic
 - spinal

Psychomotor Objectives:

At the completion of this lesson, the ETT will be able to:

- 5-2.4 Demonstrate the care of the patient showing signs and symptoms of each kind of shock (hypoperfusion). (P-1,2)
 - hypovolemic
 - cardiogenic
 - anaphylactic
 - spinal

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Lesson 5-3 INJURIES TO MUSCLES AND BONES: 3 hours

Cognitive Objectives:

At the completion of this lesson, the ETT will be able to:

- 5-3.1 Review the function of the musculoskeletal system. (C-1)
- 5-3.2 Define “fracture” and “dislocation”. (C-1)
- 5-3.3 State signs and symptoms of an open and a closed fracture. (C-1)
- 5-3.4 State the emergency medical care for a patient with an injured extremity. (C-1)
- 5-3.5 Relate mechanism of injury to potential injuries of the head and spine. (C-3)
- 5-3.6 State the signs and symptoms of a head injury. (C-1)
- 5-3.7 Describe the emergency medical care for head injuries. (C-1)
- 5-3.8 State the signs and symptoms of a potential spine injury. (C-1)
- 5-3.9 Describe the method of assessing a responsive patient who may have a spine injury. (C-1)
- 5-3.10 Describe the care of a patient with possible pelvic injury. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 5-3.11 Demonstrate the emergency care of a patient with a possible fracture. (P-1,2)
- 5-3.12 Demonstrate opening the airway in a patient with a suspected spinal cord injury. (P-1,2)
- 5-3.13 Demonstrate evaluating a responsive patient with a suspected spinal cord injury. (P-1,2)
- 5-3.14 Demonstrate stabilization of the cervical spine. (P-1,2)
- 5-3.15 Demonstrate the application of a cervical collar. (P-1,2)
- 5-3.16 Demonstrate complete spinal immobilization of a patient, per the Alaska State Skill Sheets for Supine Spinal Immobilization. (P-1,2)
- 5-3.17 Demonstrate the spinal immobilization of a patient, per the Alaska State Skill Sheets for Seated Spinal Immobilization. (P-1,2)
- 5-3.18 Demonstrate the application of a sling and swathe bandage. (P-1,2)

Optional Objectives:

- 5-3.19 Demonstrate the use of the Traction Splint for the immobilization of a mid-shaft femur fracture per the Alaska State Skill Sheets. (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 6: Medical Emergencies

Lesson 6 MEDICAL EMERGENCIES: 3 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 6-1.1 Identify the patient who presents with: (C-1)
 - a general medical complaint
 - complaint of altered mental status
 - complaint of seizures
- 6-1.2 Describe the steps in providing emergency medical care to a patient with: (C-1)
 - a general medical complaint
 - complaint of altered mental status
 - complaint of seizures

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 6-1.3 Demonstrate the assessment of a patient with: (P-1,2)
 - a general medical complaint
 - complaint of altered mental status
 - complaint of seizures
- 6-1.4 Demonstrate the steps in providing emergency medical care to a patient with: (P-1,2)
 - a general medical complaint
 - complaint of altered mental status
 - complaint of seizures

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 9: Childbirth

Lesson 9-1 CHILDBIRTH:

NOTE: This is an optional topic for Alaska ETT courses

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 9-2.1 Identify the following structures: Uterus, birth canal, placenta, umbilical cord, amniotic sac. (C-1)
- 9-2.2 Define the following terms: Crowning, bloody show, labor, abortion. (C-1)
- 9-2.3 State the indications of an imminent delivery. (C-1)
- 9-2.4 State the steps in the pre-deliver preparation of the mother. (C-1)
- 9-2.5 State the steps to assist in the delivery. (C-1)
- 9-2.6 State the steps in the delivery of the placenta. (C-1)
- 9-2.7 State the steps in the emergency care of the mother post-delivery. (C-1)
- 9-2.8 State the steps in caring for a newborn. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 9-2.9 Demonstrate the steps to assist in a normal delivery. (P-1,2)
- 9-2.10 Demonstrate the steps in the delivery of the placenta. (P-1,2)
- 9-2.11 Demonstrate the care of the newborn. (P-1,2)
- 9-2.12 Demonstrate the post-delivery care of the mother. (P-1,2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 7: Pediatrics

Lesson 7-1 PEDIATRICS: 1 hour

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 7-1.1 List assessment considerations for a child. (C-1)
- 7-1.2 Identify the major airway differences in infants and children. (C-1)
- 7-1.2 Describe the differences in the assessment of “croup” and “epiglottitis” in infants and children. (C-1)
- 7-1.3 State the special considerations for transporting infants and children. (C-1)

Psychomotor Objectives:

- 7-1.4 Demonstrate a pediatric patient assessment.

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 8: Environmental Emergencies

Lesson 8-1 ENVIRONMENTAL EMERGENCIES: 3 hours

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 8-1.1 Identify the patient who presents with: (C-1)
 - hypothermia
 - cold water near drowning
 - frostbite
 - heat exhaustion
 - heat stroke
- 8-1.2 Explain the steps in assessing patients with: (C-1)
 - hypothermia
 - cold water near drowning
 - frostbite
 - heat exhaustion
 - heat stroke
- 8-1.3 Describe the treatment of patients with: (C-2)
 - mild hypothermia
 - severe hypothermia
 - cold water near drowning
 - frostbite
 - heat exhaustion
 - heat stroke

Psychomotor Objectives:

No psychomotor objectives identified.

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 10: EMS Operations

NOTE: This is an optional module for Alaska ETT Courses.

Lesson 10-1 EMS OPERATIONS:

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 10-1.1 Discuss the medical and non-medical equipment needed to respond to a call. (C-1)
- 10-1.2 Explain the rationale for having the equipment and/or unit prepared to respond. (A-3)
- 10-1.3 List the phases of a pre-hospital call. (C-1)
- 10-1.4 Discuss the role of the ETT in extrication. (C-1)
- 10-1.5 List various methods of gaining access to the patient. (C-1)
- 10-1.6 Distinguish between simple and complex patient access. (C-1)
- 10-1.7 List the personal protective equipment necessary for each of the following situations: (C-1)
 - hazardous materials
 - rescue operations
 - violent scenes
 - crime scenes
 - electricity
 - water and ice
- 10-1.8 State the role of the ETT until appropriately trained personnel arrive at the scene of a hazardous materials situation. (C-1)
- 10-1.9 Describe the criteria for a multiple casualty situation. (C-1)
- 10-1.10 Summarize the components of basic triage. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 10-1.11 Given a scenario of a mass casualty incident, perform triage. (P-2)

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 11: Pneumatic Anti Shock Garments (PASG)

NOTE: This is an optional module for Alaska ETT Courses. It should be a minimum of four hours in length if added to an ETT course by the instructor.

Lesson 11-1 PNEUMATIC ANTI SHOCK GARMENT (PASG):

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 11-1.1 Describe the use for PASG per the Alaska PASG guidelines. (C-1)
- 11-1.2 Describe the contraindications for the use of the PASG. (C-1)
- 11-1.3 Describe the application of the PASG. (C-1)
 - with spinal precautions
 - without spinal precautions
- 11-1.4 Describe the circumstances under which the PASG may be removed from a patient. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 11-1.5 Demonstrate the application of the PASG: (P-1,2)
 - with spinal precautions
 - without spinal precautions.

EMERGENCY TRAUMA TECHNICIAN OBJECTIVES:

Module 12: Oxygen

NOTE: This is an optional module for Alaska ETT courses.

Lesson 12-1 OXYGEN:

Cognitive Objectives:

At the completion of this lesson, the ETT student will be able to:

- 12-1.1 Define the components of an oxygen delivery system. (C-1)
- 12-1.2 List the indications for free flow oxygen. (C-1)

Psychomotor Objectives:

At the completion of this lesson, the ETT student will be able to:

- 12-1.3 Demonstrate the correct operation of oxygen tanks and regulators. (P-1,2)
- 12-1.4 Demonstrate the process of initiating, administering and discontinuing free flow oxygen. (P-1,2)
- 12-1.5 Demonstrate the use of a non-rebreather face mask and state the flow requirements needed for its use. (P-1,2)
- 12-1.6 Demonstrate the use of a nasal cannula and state the flow requirements needed for its use. (P-1,2)